The second secon

made chronometer purchased by the government. This instrument was purchased september 4, 1889, at a cost of \$300. It has had a went-neight years' service afloat and is still in use as a "hack."

In this connection the naval observatory has done a great work in late years which has so simulated the American manufacture of fine chronometers as to put this country in the front rank in the manufacture of fine instruments. This was accomplished by advertising for strictly American-made instruments which should stand certain tests in keeping time under variations of temperature, humidity, position, etc.

These tests are conducted through a period of six months and are very thorough and impartial. The means by which and even temperature is maintained in the testing-rooms forms an interesting exhibit in itself. A large mercurial thermometer, whose lower end is bent into the form of a spiral arc, with fine platinum wires inserted at either end, is the instrument used for this purpose. In each instrument the top of the column of mercury at a certain mark on the scale, and by means of an electric battery set in an open circuit this contact of the mercury and the point of the platinum wire closes the circuit. Then by means of auxiliary magneto-electric instruments a valve in the gas-pipe which supplies the fuel is so regunark on the scale, and by means of an electric battery set in an open circuit this contact of the mercury and the point of the platinum wire closes the circuit. Then by means of auxiliary magneto-electric instruments a valve in the gas-pipe which supplies the fuel is so regulated as to furnish an almost absolutely uniform temperature. These thermostats, as they are called, are adjusted for 45, 60, and 75 degrees, and each thermometer is left in the respective rooms under the varying temperature and constantly compared with standard clocks and barometers. The required number of instruments is then ordered of the maker offering the instrument which makes the best record.

CLOCKS OF ALL KINDS.

Another part of the chronometer exhibit which is of interest is means by which these delicate instruments are carried from one point to another overland.

which these delicate instruments are carried from one point to another overland. This device is nothing more complicated than a large old-fashioned wicker basket such as are used by farmers' wives to send eggs to market, and inside there is enough is controlled to the controlled the control ments upon whose accuracy so much de-pends in the safety of lives as well as pro-

ments upon whose accuracy so much depends in the safety of lives as well as property.

In connection with the time-measuring instrument exhibit there is a great display of clocks of all kinds. Near the centre of the room and mounted on a solid foundation of masonry is a standard astronomical clock in anufactured by Seth Thomas. This clock is a duplicate of the one in the new mayal observatory at Washington. The case consists of a very heavy iron frame, resting upon three levelling screws. On top of this is boited a solid iron bracket, from which the pendulum is suspended, and on which the movement is placed, secured by two large milled head-screws. Two weights are used, which pass down into brass tubes closed at the bottom and placed outside of the case, but opening into the head-piece of the clock. The movement is intended to run thirty-two days. It has a Graham dead-beat escapement and beats seconds. The train is jewelled throughout, as are also the large pulleys over which the weight-cords pass. A small ratchet-toothed wheel is placed on the seconds staff of the movement between the plates, which opens an

renewed every day and may be refused to an unpleasant punter without giving him any reason for it. But there are other ways of getting rid of obstinate winners; there is a regular squad of agents proceatents, whose mode of operation is very simple. They pick a quarrel over a stake with the man pointed out to them, and as they are not in the least particular about epithets or blows, whether taken or given, a row begins, a smiling inspector comes up with reinforcement, invites you politely to come with him, and gets you out of the precincts of the place.

politely to come with him, and gets you out of the precincts of the place.

There he explains that, although he has no doubt you were in the right, the rule of the place is not to readmit those who have been the cause of a row; and there you are. Quarrels about stakes are always plentiful at Monte Carlo, and very often they are genuine; in some cases, especially when the stakes are small and on single chances, the administration pays both claimants, and keeps an eye on both if unknown.

For there is a whole army of rained For there is a whole army of ruined gamblers hanging around the place, known to everybody in it, and exercising the profession of so-called "orphan-pickers" (cueilleurs d'orpheins). An "orphan" is a stake left by inexperienced novices about a minute longer than it ought to be and kidnapped in the twinkling of an eye by a cueilleur who has spotted his man. Croupiers and inspectors look with a benevolent eye on those greenbaize pirates and generally side with them.

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default, in mandered between the transportance between the company of the company

built by the kings as their own separachres.

After some investigation the riddle was solved. It was found that during the reign of Ramezes IX, some of the royal tombs were invaded and rided, and it was determined to remove the bodies and treasures of the kings from these pyramids to a place of safety. Some of the invaders were captured and forced to a confession. The full account of their testimony has been discovered and translated.

our archaeologist that is new and extraining to the archeologist that is new and extracting to the archeologist that is new and extracting to the archeologist that is new and extracting to the archeologist that is new and extraction.

Sweller: Well, the Joweller: Well Helper Well, the Joweller: Well Helper Well, the Joweller OUR RICHMOND PRINCESS.

these eccentricities they are wonderfully well preserved and furnish information to the archeologist that is new and extremely valuable.

But Pharaoh has kindly left to future historians other things besides his own body. Upon the wails of his buildings he has left the record of his career. His passion for monument-building was overmastering, and the magnificence of his structures is proven by the many ruins now tound in Egypt and on which are written accounts of his reign. Inasmuch as it was under this monarch that is sel groaned in bondage, any testimony about this period of Egyptian history will, of course, be welcome and valuable. The Bible draws a dismal picture of the Hebrews at this time, It relates that they were settled in the land of Goshen and given the task of constructing the royal buildings of King Pharaoh. Over them were placed hard task masters, who gained a world-wide reputation for heathen crucity. It was upon such painful servitude that the Israelites at last turned their backs and fled toward the land of Canaan. Strange to say, recent explorations in the territory of ancient Goshen has revealed the ruins of the very

Doing the Right Thing.

Young Man: I deliver ice at your house, and I thought I'd see if you wouldn't do the right thing by me in the purchase of a ring for a young woman.

Jeweller: How high do you want to go?

Young Man: About eight dollars.

Jeweller: You deliver ice at my house, you say? you sav

Young Man: Yes, Jeweller: Well, there's a six-dollar ring, but under the circumstances you may have

A Long Respite. (Washington Star.) "Or know how these Chinamin 'Il git 'round the law," said Mr. Dolan, who had been meditating, pick in hand, for several minutes.
"How'll they do it?"

"They'll git Congress to give 'em toime enough to collect all that's due them on laundry bills. An' thin, begorrah, they'll stay foriver!" One Comfort. [Washington Star.]

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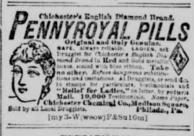
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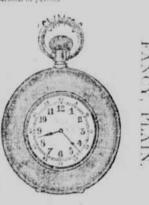


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